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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/416,715	10/13/1999	MANFRED LEMBKE	10191/1201	6509

26646 7590 02/26/2002

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EXAMINER

ZACHARIA, RAMSEY E

ART UNIT	PAPER NUMBER
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1773

DATE MAILED: 02/26/2002

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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/416,715

Applicant(s)

LEMBKE ET AL.

Examiner

Ramsey Zacharia

Art Unit

1773

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 08 February 2002.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,4-6 and 8-17 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,4-6 and 8-17 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Continued Prosecution Application

1. The request filed on February 8, 2002 for a Continued Prosecution Application (CPA) under 37 CFR 1.53(d) based on parent Application No. 09/416,715 is acceptable and a CPA has been established. An action on the CPA follows.
2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Objections

3. Claim 8 is objected to because of two antecedent basis informalities. To maintain proper antecedent basis, the phrase "fluorine-containing polymer" should be replaced with --polymeric fluorocarbon resin-- and the phrase "fluorosilane" should be replaced with --fluorine-containing silane--. Appropriate correction is required.

Claim Rejections - 35 USC § 102

4. Claims 1, 4-6, 8-13, and 17 are rejected under 35 U.S.C. 102(b) as being anticipated by Gruner et al. (U.S. Patent 4,345,465).

Gruner et al. teach a probe for measuring the rate of flow, temperature, or both of a flowing gas or other fluid that may be used in an internal combustion engine (column 1, lines 5-13). The probe comprises thin sheets of a heat resistant polymer having a hydrophobic coating

that is preferably 0.5 μm thick (column 1, lines 35-66). The hydrophobic coating may be a polymer of hexafluoropropylene, i.e. a polymeric fluorocarbon resin or fluorine-containing polymer, that is designed to prevent dirt from contaminating the surface (column 3, lines 18-25).

Regarding the limitations of claims 4, 5, and 10, the stability temperature, surface energy, and decomposition temperature are taken to be physical properties of the material. Since Gruner et al. uses a fluorinated polymer for the hydrophobic coating as is done in the instant application, the hydrophobic coating of Gruner et al. is taken to inherently possess the same material properties as that of the instant invention.

Moreover, the hydrophobic coating of Gruner et al. is taken to pass a cross-cut test since it is the same material as used in the instant invention and is designed to act as a protective layer.

Claim Rejections - 35 USC § 103

5. Claims 14-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sugimoto et al. (U.S. patent 4,606,952) in view of Gruner et al. (U.S. Patent 4,345,465).

Sugimoto et al. teach an automotive fuel hose and fuel pump diaphragm comprising a laminate of a fluororubber inner layer bonded to an outer layer (column 1, lines 9-13).

Sugimoto et al. do not teach the presence of a sensor element.

Gruner et al. teach a probe for measuring the rate of flow, temperature, or both of a flowing gas or other fluid that may be used in an internal combustion engine (column 1, lines 5-13). The probe is designed to be disposed in a flow channel or duct of a fluid medium (claim 1).

One of ordinary skill in the art would be motivated to dispose the probe of Gruner et al. in the fuel hose or pump of Sugimoto et al. to allow for detection of, and subsequent control

over, the rate of flow through the hose or pump.

Regarding claim 16, the hose or pump containing the probe reads on a housing for the probe.

Therefore, the inventions of claims 14-16 would have been obvious to one of ordinary skill in the art at the time the inventions were made.

Response to Arguments

6. Applicant's arguments with respect to claims 1, 4-6, and 8-17 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ramsey Zacharia whose telephone number is (703) 305-0503. The examiner can normally be reached on Monday through Friday from 9 to 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Thibodeau, can be reached on (703) 308-2367. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9310 for non after-final correspondences and (703) 872-9311 for after-final correspondences.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

REF

Ramsey Zacharia

2/21/02


Paul Thibodeau
Supervisory Patent Examiner
Technology Center 1700